

Li165

Intelligent network camera out-
standing light sensitivity



Day/Night

Delivers outstanding megapixel "HD" image clarity and digital zoom even in low-light conditions using a 2/3" HAD CCD image sensor. For night vision, select our Li165C-DN day/night cameras, featuring a filter mechanism designed for deployment with active infrared illuminators. The monochrome Li165M provides maximum sensitivity and resolution.

Moving vehicles

Provides superior capabilities for stop-motion image capture. Even at highway speeds, crisp images are delivered by the high sensitivity CCD sensor with global electronic shutter.

Control bandwidth and storage

The camera provides for both JPEG and H.264. Choose JPEG to provide the best quality images for digital zoom, post-incident analysis, and fast motion. Use H.264 to reduce bandwidth for your wireless deployments and to reduce disk storage requirements.

Compatibility

By maintaining a common Application Programming Interface (API), Lumenera network cameras are supported by your preferred off-the-shelf video management software and custom applications.

Easy to use

- Fully Windows compatible web pages allow you to view or configure cameras at any time & from any location.
- Power over Ethernet (PoE) simplifies installation and reduces cabling costs. You may also choose 24 VDC low-voltage installation.
- No-hassle lens mount – Compatible with C or CS-mount lenses.
- Composite video output – NTSC/PAL format analog video loop out lets a lone installer position the camera and focus the lens using daylight readable displays.

Features

- Video analytics for timely response and reduced operator fatigue
- 1.4 megapixel progressive scan HAD CCD
- Light sensitivity superior to most analog cameras
- Clear, sharp images with low noise
- True day/night "DN" option
- High dynamic range for challenging outdoor lighting conditions
- Configurable compression:
 - o 15 fps JPEG (full size 1376 x 1032 pixels)
 - o 15 fps H.264 (720 x 480)
- Easy installation and setup
- User and Admin passwords
- Compatible with Windows and Linux operating systems
- Consistent Lumenera API

Recommended Applications

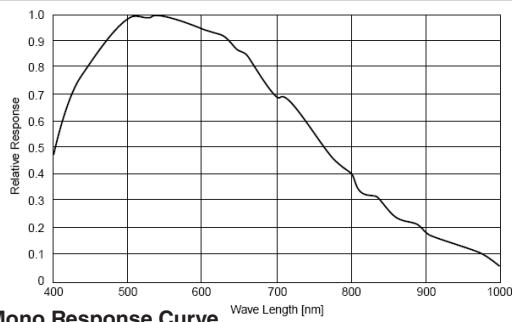
Night & perimeter surveillance

- Military bases and national security sites
- Airports
- Sea ports
- Borders and border crossings
- Prisons
- Refineries
- Power plants, hydroelectric dams

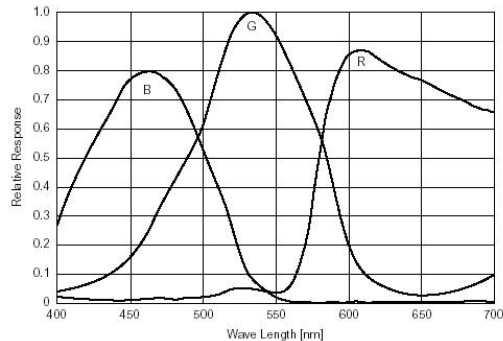
Stop-motion image capture

- License plate recognition (ALPR)
 - o Toll roads
 - o Parking
 - o Law enforcement
- Optical character recognition
 - o Container shipping
 - o Railway freight

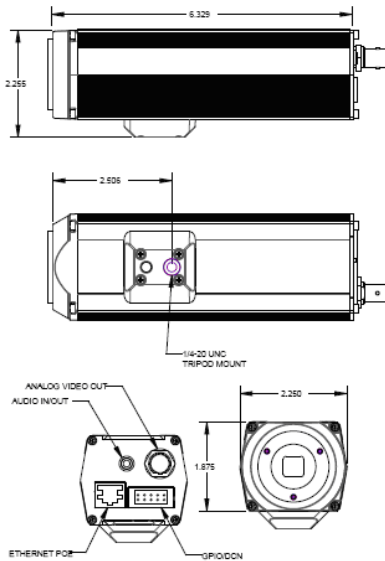




Mono Response Curve



Color Response Curve



| Image Sensor | |
|----------------------|-----------------------------------------|
| Type | 2/3" HAD CCD, color or monochrome (B/W) |
| Effective Pixels | 1376 x 1032 |
| Active area | 8.9 x 6.7 mm |
| Pixel size | 6.45 µm |
| Minimum illumination | 0.01 lux at F/1.0 |
| Dynamic Range | 66 dB |
| Shutter type | Global |
| Scan mode | Progressive scan |

| Optics | |
|-------------------|-----------------------------|
| Lens mount | CS-mount |
| Day-Night | "DN" models only, Automatic |
| Day wavelengths | 400 nm to 650 nm |
| Night wavelengths | 400 to 1100 nm |

| Camera control | |
|--------------------------|--------------------------------------------------------|
| Frame rate - JPEG | 15 fps (1376 x 1032 pixels), 27 fps (640 x 480 pixels) |
| Frame rate - H.264 | 15 fps (720 x 480 pixels) |
| Exposure modes | Auto, Manual |
| Exposure / shutter speed | < 0.1 to 150 ms (< 1/10,000 to 1/7 sec.) |
| Anti-flicker | Off, 60 Hz, 50 Hz |
| Gain modes | Auto, Manual |
| White balance | Auto, Manual |
| Passwords | 1 admin, 1 user |
| Image buffer | 128 MB (up to 900 JPEG images) |
| Analog video output | NTSC or PAL, factory-set |

| Power | |
|-------------------|---------------------------------------|
| Power source | External 24 VDC or PoE (IEEE 802.3af) |
| Power consumption | 6 W max |

| Mechanical | |
|-----------------------------------------|----------------------------------------------|
| Dimensions (excludes lens & connectors) | 1.9" x 2.25" x 6.3" (48 mm x 57 mm x 160 mm) |
| Mass | ~ 11 oz. (~ 300 g) |
| Case material | Aluminum |
| Mount | 1/4-20 tripod mount |

| Environmental | |
|-----------------------|-----------------------|
| Operating temperature | -10 to +50°C |
| Operating Humidity | 5-95%, Non-condensing |

| Connectors | |
|-------------------------|-------------------------------------------------|
| Analog video connector | BNC |
| Audio connector | Single 3.5 mm stereo jack, 1 input and 1 output |
| Power and I/O connector | 10 locking terminals, accepts 18 to 28 AWG wire |
| Inputs | 1 opto-isolated |
| Outputs | 1 opto-isolated |
| Serial port | RS-232 (1 Rx & 1 Tx terminal) |
| Network interface | 10/100 BASE TX Fast Ethernet |
| Interface connector | RJ45 Cat 5e twisted pair cable |

| Software & Networking | |
|-----------------------|-------------------------------------------------------------------------------------------------|
| Compatible software | Multiple third-party/open-platform VMS providers |
| Supported protocols | HTTP, TCP/IP, RTP/RTSP, FTP (client only), DHCP, DNS, ARP, Zeroconf (Bonjour), ICMP (ping), NTP |

| Approvals | |
|---------------------|--------------------------------------------|
| FCC compliance | Class B |
| CE compliance | EN55024, EN55022, EN61000-3-2, EN61000-3-3 |
| Hazardous materials | RoHS compliant/ WEEE Compliant |
| Power supply | UL, FCC, CE |

| Recommended PC Specifications | |
|-------------------------------|--------------------------------------|
| O/S | Windows 7, Windows Vista, Windows XP |
| CPU | 2.8GHz or above Pentium/Core 2 |
| Browser | Internet Explorer v8.0 |

Ordering Information

| | |
|---------------|--------------------------------------------------|
| Li165CB | 1.4 megapixel color network camera |
| Li165CB-DN | 1.4 megapixel color day/night network camera |
| Li165MB | 1.4 megapixel mono network camera |
| Li165MB-DN | 1.4 megapixel mono day/night network camera |
| OV1, OV2, OV3 | ObjectVideo OnBoard analytics options |
| Lu8401 | 24 VDC, 1A power supply with international plugs |
| Lu901 | C-to-CS mount adapter |
| Le903 | Replacement 10-terminal power & I/O connector |
| Le906B | Replacement tripod mount |

